

MURD820-01

Rev.B Apr.-2023



DATA SHEET

TO-252

Fast Recovery Epi Diodes in a TO-252 Plastic Package.

High frequency operation, High surge forward current capability, HF Product.

For high frequency, high voltage, high curr

MURD820-01

Rev.B Apr.-2023

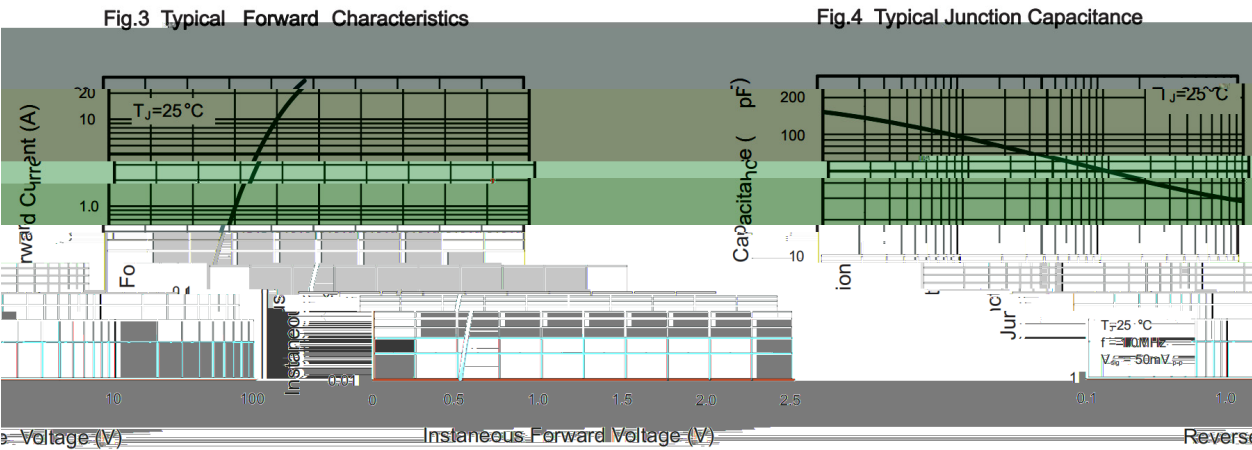
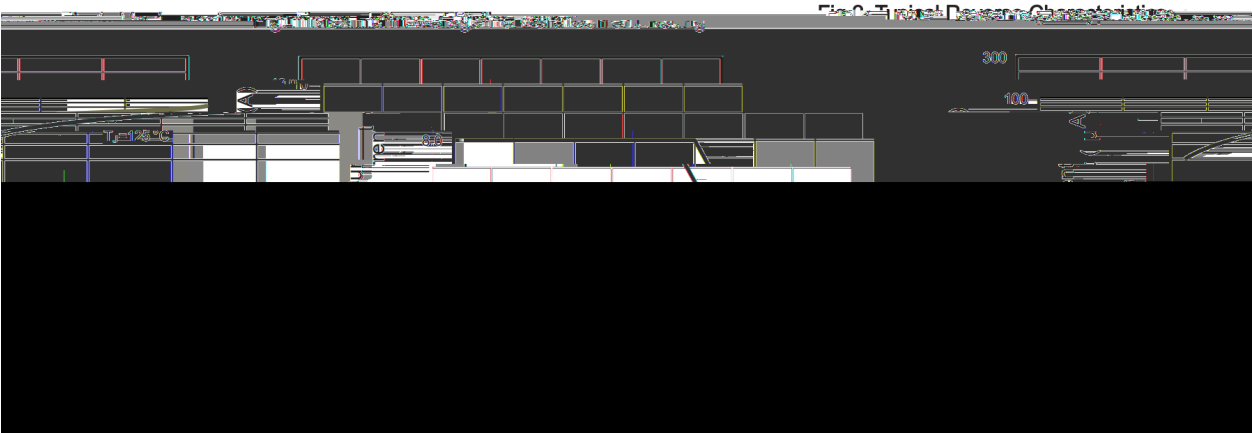


DATA SHEET

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Maximum RMS voltage	V_{RMS}	140	V
Maximum DC blocking Voltage	V_{DC}	200	V
Maximum Average Forward	$I_{F(AV)}$	8	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	100	A
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	50	/W
Operation Junction Temperature and Storage Temperature	T_j, T_{stg}	-55 150	

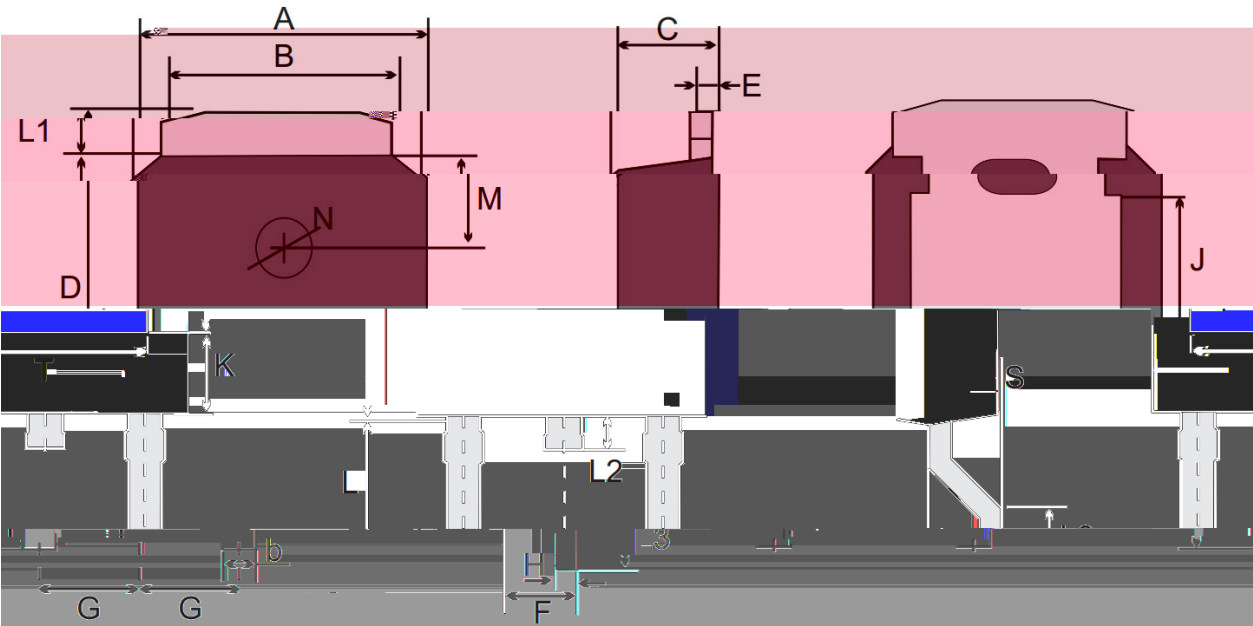
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=8A$ $T_C=25$			1.0	V
		$I_F=8A$ $T_C=125$			0.95	
Instantaneous Reverse Current	I_R	$V_R=200V$ $T_a=25$			10	μA

/ Electrical Characteristic Curve



/ Package Dimensions

TO-252



TO-252(D-PAK) mechanical data

M	N	J	K	T	UNIT	A	B	b	C	D	E	F	G	H	L	L1	L2	L3	S	I
					max	6.7	5.5	0.8	2.5	6.3	0.6	1.8		0.55	3.1	1.2	1.0	1.75	0.23	
					min	6.3	5.1	0.34	2.1	5.9	0.4	1.3		0.5	2.7	0.8	0.6	1.0		
					max	26.2	21.7	3.1	9.8	24.8	2.4	7.1		22.1	22.1	4.7	3.9			
					min	7.6	7.0	2.8	9.0	7.0	2.0	5.0		9.0	9.0	1.4	1.4	3.1		
					max	24.8	20.1	12.1	28.2	18.1	5.1			18.1	10.6	3.1	2.1	5.1		

/ Marking Instructions



BR

MURD820

Note:

BR:

Company Code

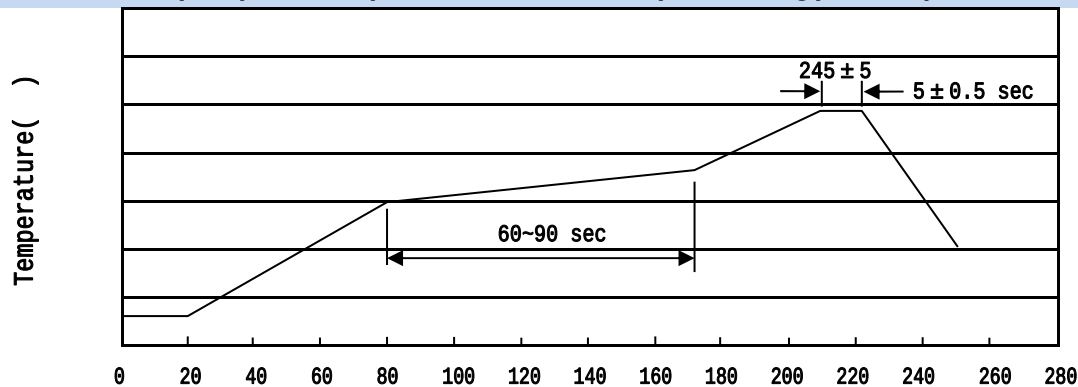
MURD820

Product Type

****:

Lot No. Code, code change with Lot No

() / Temperature Profile for Dip Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|-----------|--------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | | 5±0.5sec; | | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

/ Resistance to Soldering Heat Test Conditions

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
TO-252	2,500	2	5,000	6	30,000	13 ×16	360×360×50	380×335×366

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

/ Notices